

Parameters of 100Mbps Multimode Fiber Optic Transceiver



AI Overview

A 100Mbps multimode fiber optic transceiver (100BASE-FX SFP) typically operates at 1310nm over multimode fiber, supporting distances up to 2 km with LC connectors and full-duplex Fast Ethernet transmission. Key Specifications

Data Rate and Standard Supports 100Mbps Fast Ethernet according to the IEEE 802.3u 100BASE-FX standard. Uses 4B/5B encoding for data transmission over fiber. Wavelength and Fiber Type Operates at a nominal wavelength of 1310nm. Designed for multimode fiber (MMF), typically OM1, OM2, or OM3 depending on distance requirements.

Transmission Distance Maximum link distance is up to 2 km over standard multimode fiber. Shorter distances (100–500 m) are common for industrial or campus networks depending on fiber type and quality.

Connector and Form Factor Uses LC-style connectors for fiber interface. Available in SFP (Small Form-factor Pluggable) modules, allowing hot-swappable deployment in switches, routers, and media converters.

Duplex and Signal Conversion Supports full-duplex operation, converting electrical Ethernet signals to optical signals and vice versa. The SFP module interfaces with the switch/router via a 100Mbps electrical port, while the fiber carries the optical signal to the remote device.

Performance and Reliability Provides strong EMI immunity and stable performance in electrically noisy environments, making it suitable for industrial, transportation, and outdoor campus networks. Bit error rate (BER) is typically very low, ensuring reliable data transmission over the specified distance.

Deployment Considerations Compatible with legacy Fast Ethernet infrastructure and can be used to extend network reach beyond copper limitations. Ideal for environments where electrical interference or grounding differences may affect copper Ethernet connections.

Summary A 100BASE-FX SFP t...

Article Content

StarTech Cisco GLC-FE-100FX Compatible SFP Module

StarTech Cisco GLC-FE-100FX Compatible SFP Module - 100BASE-FX - 100Mbps Multimode Fiber MMF Optic Transceiver - 100 Mbps - LC 2km - 1310nm - DDM Cisco ASR920, IE2000, IE4000

100BASE FX SFP: Complete Guide to 100Mbps Fiber Transceivers

Learn everything about 100BASE FX SFP, including specifications, transmission distance, fiber requirements, applications, and deployment best practices.

Multi-mode optical fiber

Multi-mode optical fiber is a type of optical fiber mostly used for communication over short distances, such as within a building or on a campus. Multi-mode links can

Cisco SFP: Unlocking the Power of Optical Transceiver

A Cisco SFP (Small Form-Factor Pluggable) module is a small, hot-swappable network transceiver that provides flexibility at the interface level for

Understanding Optical Transceiver Modules: A Comprehensive Guide

In the world of fiber optic communications, optical transceiver modules play a pivotal role as interfaces that convert electrical signals to optical signals and vice versa. If you're dealing with

Cisco 10GBASE SFP+ Modules Data Sheet

Cisco FET-10G module The Cisco FET-10G Fabric Extender Transceiver supports link lengths up to 100m on laser-optimized OM3 or OM4

100Base-FX SFP Multi-Mode LC Module (2km)

TRENDnet's 100Base-FX SFP Multi-Mode LC Module, model TE100-MGBFX, is compatible with standard SFP slots found on network switches and fiber media

JTOPTICS 100G Transceivers | High-Performance 100G Solutions

100G Transceivers by JTOPTICS deliver high-speed optical data transmission and are ideal for data centers, enterprise networks, and telecom applications. Engineered for reliability and scalability,

H3C QSFP-100G-SR4-MM850 Datasheet

The H3C QSFP-100G-SR4-MM850 QSFP28 Optical Transceiver Module is designed for use in 100GBASE Ethernet throughput up to 100m over OM4 multimode fiber (MMF) using a wavelength of

Features and Applications of the 100G QSFP28

Discover the key features and applications of 100G QSFP28 Multimode optical transceiver modules in the context of cloud computing and 5G

100G Transceivers – What You Need to Know Before

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Cisco Transceiver Modules

Cisco Transceiver Modules - Learn product details such as features and benefits, as well as hardware and software specifications.

100G QSFP28 Cable and Transceiver Modules Data Sheet | FS

This transceiver is compliant with IEEE 802.3bm 100GBASE-SR4 and CAUI-4 standard. Digital diagnostics functions are also available via the I2C interface, as specified by the QSFP28 MSA, to

100BASE FX SFP: Complete Guide to 100Mbps Fiber Transceivers

100BASE-FX is a Fast Ethernet fiber optic standard defined by the IEEE under IEEE 802.3u. It specifies 100Mbps data transmission over multimode fiber using a 1310nm wavelength and 4B/5B encoding.

100G QSFP28 SR4 100m Transceiver

The optical transceiver is designed with form factor, optical/electrical connection and digital diagnostic interface according to the QSFP28 Multi-Source Agreement (MSA) and it is

100Base-FX SFP Module

MSA Uncoded SFP Module - 100BASE-FX - 100MbE Multi Mode Fiber (MMF) Optic Transceiver - 100Mb Ethernet SFP - LC 2km - 1310nm - DDM

MFB-FX Multimode 100Mbps SFP Fiber Transceiver –

SFP Fiber Transceiver PLANET's 100Mbps Fast Ethernet SFP Fiber Transceiver utilizes a wavelength of (1310nm) FP LD, which enables a data transmission of

SFP-FAST-MM/LC HIRSCHMANN, Fiber Optic

Buy SFP-FAST-MM/LC - HIRSCHMANN - Fiber Optic Transceiver, SFP Fiberoptic Fast-Ethernet, 1310 nm. Newark Electronics offers fast quotes, same day

Know Your 100G Transceiver | Juniper Networks

Fiber type and reach—The fiber type specifies the type of optical fiber (single-mode or multimode) compatible with 100G transceivers. The reach provides the maximum supported distance or range

The FOA Reference For Fiber Optics

Passive loss is made up of fiber loss, connector loss, and splice loss. Don't forget any couplers or splitters in the link. If the specifications for a type of system or

Complete Guide to Choosing the Right 100M Optical

Choose the right 100M optical transceiver by checking compatibility, fiber type, wavelength, distance, data rate, connector, and reliability.

Tripp Lite Ethernet Adapter, USB 3.0 Multimode Fiber

Tripp Lite Ethernet Adapter, USB 3.0 Multimode Fiber Optic Transceiver, 10/100/1000 Mbps, 1310nm, 550m, LC, White (U336-MMF-1G-LC) Visit the

100Base-FX SFP Multi-Mode LC Module (2 km)

The 100Base-FX SFP Multi-Mode LC Module, model TE100-MGBFX, works with standard SFP (Mini-GBIC) slots on most switches and supports Multi-Mode

Finisar FTLC9152RGPL 100G 100m QSFP28 SWDM4 Optical

Finisar's FTLC9152RGPL 100G QSFP28 transceiver modules are designed for use in 100G Ethernet links over duplex multimode fiber. They are compliant with the QSFP28 MSA1 and IEEE 802.3bm

What is a 1000BASE-SX SFP Optical Transceiver

A 1000BASE-SX SFP is a gigabit transceiver for multimode fiber, enabling 1Gbps Ethernet connections up to 550 meters using 850nm wavelength.

StarTech MSA Uncoded Compatible SFP Module

StarTech MSA Uncoded Compatible SFP Module - 100BASE-FX - 100MbE Multi Mode Fiber (MMF) Optic Transceiver - 100Mb Ethernet SFP - LC 2km -

100GBASE QSFP-100G Modules Data Sheet

Each Cisco QSFP 100-Gbps SR1.2 BiDi transceiver consists of two transmit and receive channels in the 832-918 nanometer wavelength range,

Multi-Mode 100Mbps Fiber Transceiver SFP/Mini-GBIC

Cisco GLC-FE-100FX Compatible SFP Module - 100BASE-FX - 100Mbps Multimode Fiber MMF Optic Transceiver - 100 Mbps - LC 2km - 1310nm - DDM Cisco

Contact Us

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